|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Subnet Description** | **Number of Hosts Needed** | **Network Address/CIDR** | **First Usable Host Address** | **Broadcast Address** |
| 0 | 58 | **192.168.72.0** | **192.168.72.1** | **192.168.72.63** |
| 1 | 29 | **192.168.72.64** | **192.168.72.65** | **192.168.72.95** |
| 2 | 15 | **192.168.72.96** | **192.168.72.97** | **192.168.72.127** |
| 3 | 7 | **192.168.72.128** | **192.168.72.129** | **192.168.72.143** |
| 4 | 2 | **192.168.72.144** | **192.168.72.145** | **192.168.72.147** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Device** | **Interface** | **IP Address** | **Subnet Mask** | **Default Gateway** |
| Building1 | G0/0 | **192.168.72.65** | 255.255.255.128 | N/A |
| G0/1 |  |  | N/A |
| S0/0/0 | **192.168.72.146** |  | N/A |
| Building2 | G0/0 | **192.168.72.1** |  | N/A |
| G0/1 |  |  | N/A |
| S0/0/0 | **192.168.72.145** |  | N/A |
| ASW-1 | VLAN 1 | **192.168.72.130** |  |  |
| ASW-2 | VLAN 1 | **192.168.72.98** |  |  |
| ASW-3 | VLAN 1 | **192.168.72.66** |  |  |
| ASW-4 | VLAN 1 | **192.168.72.2** |  |  |
| Host-A | NIC | **192.168.72.142** |  |  |
| Host-B | NIC | **192.168.72.126** |  |  |
| Host-C | NIC | **192.168.72.94** |  |  |
| Host-D | NIC | **192.168.72.62** |  |  |